

Development of Intelligent Smart Bicycle Control System

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Abstract

© 2018 IEEE. The growth of urbanization, which mobility demand increases, leads to an growth in the transport complex's negative impact on the environment. This causes the urgency focused of 'green' types of transport, such as a bicycle. The growing popularity of this transport type throughout the world is due to its low cost and environmental friendliness. To expand the potential cyclists, range, we offer the smart bike concept that will help an untrained cyclist in situations where health, as well as environmental parameters, create difficulties for the trip. The concept of bicycle management, as well as the algorithm for identifying the current state of the system, based on the neural networks, are described.

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